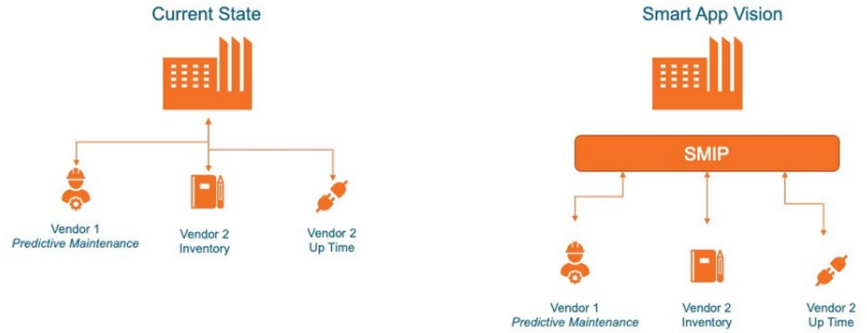


PROJECT CASE STUDY
Smart Application
Infrastructure

Smart Apps: The Bigger Picture



PROJECT LEAD

ThinkIQ

PROJECT TEAM

N/A

PROJECT OBJECTIVE

This project objective is to significantly enhance the existing Smart Manufacturing Innovation Platform (SMIP) to support a multi-vendor environment for the development, deployment, management, and administration of Smart Applications.

Smart App Infrastructure Lowers Manufacturer's Software Implementation Costs by 35%

BENEFITS TO OUR NATION

The Smart App Infrastructure developed in this project will allow manufacturers to streamline operations, improve efficiencies, and reduce costs. Smart Apps allow manufacturers to improve supply chain visibility, enabling businesses to make data-driven decisions and optimize inventory management. By implementing smart manufacturing tools, US manufacturers can gain a competitive edge, driving innovation and job creation, and positioning the US as a leader in Smart Manufacturing practices.

BENEFITS TO INDUSTRY

The Smart Application Infrastructure elements developed in this project will allow manufacturers to deploy Smart Manufacturing Applications more quickly and easily. It is estimated that the Smart App Infrastructure will reduce the cost of creating and implementing Smart Apps by 35%.

The enhanced availability of Smart Apps will make these technologies more accessible to Small & Medium Sized Manufacturers (SMMs), furthering the CESMII mission of democratizing Smart Manufacturing.

[MORE ON CESMII.ORG](https://www.cesmii.org)

PROJECT DESCRIPTION

TECHNICAL APPROACH

- The existing Smart Manufacturing Innovation Platform (SMIP) will be extended to provide robust middle-tier APIs which will allow programmatic access to the various services provided by the Content Management System.
- Platform Services will be developed to support independent Smart Application deployment, upgrades, and administration.

ACCOMPLISHMENTS

Infrastructure was created and added to the SMIP to support the following types of Smart Applications:

- No-code Application
- Stand-Alone Application
- Library
- Integrated Application

DELIVERABLES

- Delivered Application Programming Interface for a Content Management System Application
- Delivered Automated Service to Deploy and Update Smart Applications
- Delivered Examples of How to Implement No-code Application
- Delivered Example Code Library
- Training Video

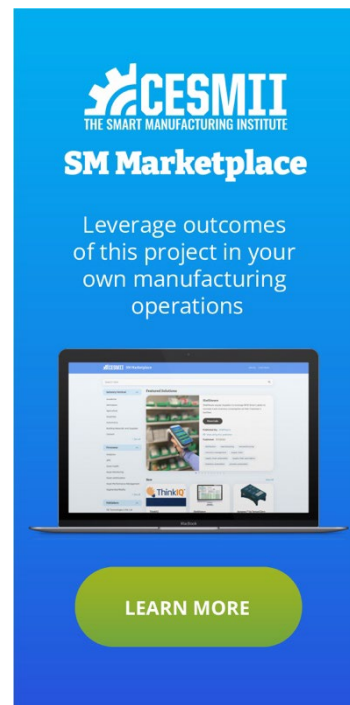
REUSABLE OUTCOMES / SM MARKETPLACE

- Smart Application Development, Deployment & Management Tools

RESULTS

↓ 35%

Deployment of the Smart Application Infrastructure will allow manufacturers to reduce their cost of implementing Smart Apps by 35%.



The banner features the CESMII logo (The Smart Manufacturing Institute) and the text 'SM Marketplace'. Below the logo, it says 'Leverage outcomes of this project in your own manufacturing operations'. A laptop displays a screenshot of the SM Marketplace interface. At the bottom, there is a green button with the text 'LEARN MORE'.

PROJECT DETAIL

Budget Period: BP3 - BP4
Submission Date: 3/30/2022
Sub-Award (contract) Number:
4550 G YA224
SOPO: 2329

FOR MORE INFORMATION CONTACT

Name: Doug Lawson
Position: CEO
Phone: 949-412-4604
Email: doug@thinkiq.com